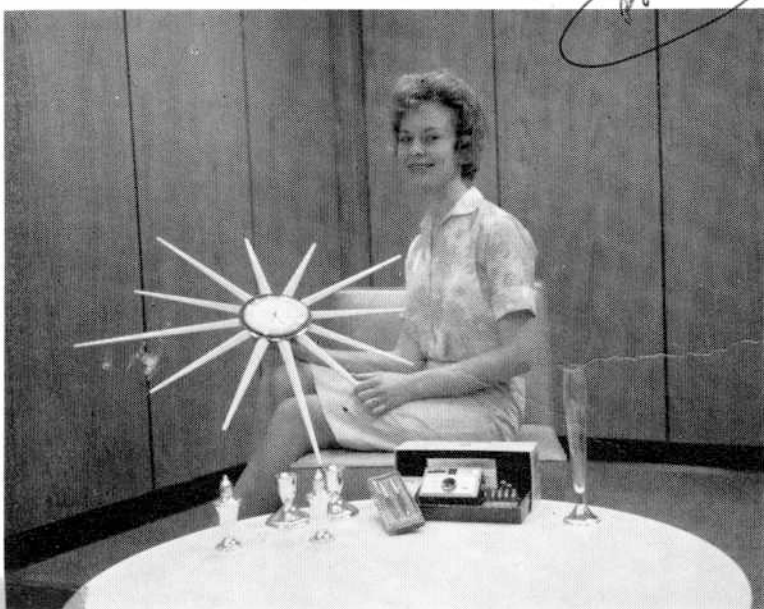




JERRY COLLINS AND HIS ORCHESTRA (well, not exactly) will play for Y-12's big dance, set for Friday, May 14. It's not really his orchestra . . . just some fun the artists had with his picture and some kooky-looking band members. Really, the other orchestra members will not look that bad! That is Collins at the piano, at least, or his head!



EASY-TO-LOOK-AT DOOR PRIZES (Easy-To-Look-At Model, too!) for Friday's big dance include a wall clock, sterling candlesticks, sterling salt and pepper shakers, bud vase, Parker pen and pencil set and a miniature camera. (Not pictured is a 30-cup automatic percolator.) Sue Tate, Labor Relations, obligingly posed with the loot.

Big Ladies Night Is Planned May 22 By Metals Society At Deane Hill Club

The Oak Ridge Chapter of the American Society for Metals announces important plans for its May 22 meeting.

A special Ladies Night is set . . . as the ASM plans to install new officers, and share a good meal and a dance with fellow workers.

The cost is \$4 per head. Stags are welcomed . . . and only need to pay at the door. ASM is pushing for a good turnout, however, and reservations may be made through C. P. Coughlen, Building 9202, or at his Knoxville address, 1201 Craig Road.

Dinner will consist of roast beef, chicken or shrimp Newburg . . . and the dinner will be followed by dancing to the tunes of Allan Adkins' music.

That's Saturday night, May 22, at Deane Hill Country Club, Knoxville. The social hour will begin at 6:30 p.m., with the buffet at 7:30 . . . and dancing at 9. There will be skits in addition to the installation ceremonies.

Additional information may be had by contacting Coughlen, at extension 3-5231, or Knoxville telephone 588-2930.

Plans All Set For Friday's Big Dance!

Time is running out! Have you purchased your ticket to Friday's dance? The big event is all set with door prizes already polished and packaged.

The big drawings will see things like a Parker pen and pencil set, sterling salt and pepper shakers, sterling bud vase, sterling candlestick holders, an instamatic camera, a wall clock . . . plus a 30-cup automatic percolator.

Tickets are only \$1.50 each . . . and a couple gets in, naturally, for \$3. Jerry Collins and his orchestra will be on hand for the dance-time music you've asked for.

Ticket sellers include:

Bobbie Watkins, 9212
Elizabeth Kilby, 9764
Madeline Keck, 9739
Merilyn Barnhill, 9204-2
Shirley Humphrys, 9720-8
Jo Ann Isham, 9212
J. C. Thompson Jr., 9201-1
Kathleen Milligan, 9201-1
Doris Mathis, 9706-2
Daisy Ward, 9995
Gene Barnes, 9733-2
Dottie Fielder, 9720-6
C. M. "Hap" West, 9711-1
Frances Donahue, 9734
Jeanne Cothron, 9201-5
Faye Duncan, 9215
J. P. Smith, 9733-3
Betty Whitehorn, 9202
Ella Stansell, 9723-14
Helen Long, 9723-15
Jo Walpool, 9204-4
Mildred Scott, 9706-2
R. T. Cantrell, 9704-2
Cafeteria, 9711-5
E. M. Massey, 9203
C. E. Gillihan, 9706-1A
Mary Thompson, 9998

Continued on Page 4

Y-12-Made Reactor Shield In Polar Orbit On SNAP 10-A

Y-12 is in orbit again . . . at least part of its handiwork is! The unusual shield for the SNAP-10A was fabricated here.

The Atomic Energy Commission last month launched a compact nuclear reactor power system from Vandenberg Air Force Base, California. The 970-pound device was boosted into a 700-nautical mile polar orbit by an Atlas-Agena vehicle.

The purpose of the flight test is to establish the feasibility of operating a nuclear reactor power system in space. The reactor reached full power about 48 hours after launch, and the reactor system became self-controlled about 48 hours after that. The reactor system uses no moving parts, and is designed to operate for one year.

3,500-Year Orbit

If the orbit planned for the test is achieved, the reactor system would not be expected to re-enter the atmosphere for 3,500 years. In any event, the reactor was not started until it had attained an orbit of sufficient duration to permit the radioactive material to decay to safe levels after shutdown of the reactor.

The shield was composed of a specially purified lithium hydride powder which was placed in a mold and compacted with equal pressure from every side at 30,000 pounds per square inch.

The block of lithium hydride was then machined to the required dimensions and encapsulated in a stainless steel container. After testing, the shield was

shipped to Atomics International, California, the contractor for the space vehicle.

Space Power Source

The 10-A was developed under the AEC's SNAP (Systems for Nuclear Auxiliary Power) program. The purpose of the program is to develop reliable, long-lived sources of electrical power for satellites and space vehicles, and for other uses on land and in the sea.

A radio command from the ground initiated the start-up of the nuclear power system.

Great obstacles had to be overcome simply to find the materials, structures and overall design that would meet the size, weight, power and lifetime requirements for a space reactor power plant. In addition, years of development and testing were required to assure that materials, subassemblies, and the complete system would operate despite shock, vibration, heat, radiation and the peculiar effects of the absolute vacuum of space.

Near-Perfect Reliability

Future space, lunar and planetary missions will require power supplies up to many thousands of kilowatts, with lifetimes up to several years and with near-perfect reliability. The only practical device which can meet requirements for relatively large amounts of power in space exploration is a nuclear reactor. The SNAP-10A system technology can be applied in nuclear space power units that have no moving parts and are capable of producing

Continued on Page 4



MADE IN Y-12 is the above shield for the SNAP-10A space reactor, put in orbit last month from Vandenberg Air Force Base. J. E. Taylor, Tool Grinding, formerly in Assembly, is shown with the Y-12-made shield.

The Bulletin

Published Weekly For The
Y-12 Employees Of
UNION CARBIDE
CORPORATION



NUCLEAR DIVISION

JAMES A. YOUNG Editor

Member



Appalachian
Industrial
Editors'
Association

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Y-12er's Daughter Is Norris Honor Student

Shares Top Place
With Another Student



Mary Anne Grim

Mary Anne Grim, daughter of Mr. and Mrs. Mark S. Grim Jr., has been named co-valedictorian of the graduating class at Norris High School. She shares the top honors with Ann Dale, daughter of Mr. and Mrs. James Dale.

Mary Anne is president of the Norris High School chapter of the National Honor Society. She is an officer in the Norris High School Band and an honorary member of the Student Council, and also a member of the Beta Club, Science Club, Spanish Club and Future Teachers of America.

The young school leader is a member of St. Joseph's Catholic Church and is a teacher of religion for children in the first and second grade age group. She will serve this summer as a counselor at Camp Marymount located near Nashville. Mary Anne plans to study for a degree in nursing at the University of Tennessee, Memphis.

The proud father is in Y-12's Facilities Engineering Department. There is one other daughter at home, Margaret, a junior at Norris High School.

Daffynitions

OCEAN LINER: Sand.

VACATION: When the rainy days you saved for finally arrive.

SECOND-HAND CAR: One that teaches how hard it is to drive a bargain.

ENOW: This was enough long ago, but ain't enough anymore!

RICH MAN: One who isn't afraid to ask the clerk to show him something cheaper.

ACCORDIAN: A bagpipe with pleats.

FLY: A lunch counter irritant.

ASTRONAUT: A cloud hopper.

GOBLET: A baby sailor.

Let's Take Y-12's Safety Philosophy Home With Us

I heartily endorse Safety's efforts this month to try to reduce the number of off-the-job accidents that occur to Y-12ers.

Far too many of our employees are hurt on the highways, at home, or on the lakes or other recreational areas. With just a little effort these accidents can be greatly reduced, if not entirely eliminated.



G. Strasser

The 20-plus years of Y-12's history is indeed an illustrious example of safety performance at a peak. However, the off-the-job picture is not nearly as bright. As has been pointed out, our plant safety history is a matter of pride to all of us . . . and well it should be.

The tragedies of home accidents are evident all around us, if not in our own homes.

Teaching our children safety practices is one of the prime responsibilities we have as parents. Setting an example before them is one of the most effective ways to accomplish this, I believe.

Many of us have farms on which we live, either full or part-

time. Needless waste is evident here also . . . of man-power lost because somebody failed to read instructions properly . . . or acted rashly.

We can take our good safety record home with us. The solution is easy. Enforce the same rules of safe conduct in play or at homework that is enforced on the job.

Thus, our lives become safer at home . . . at play . . . in the garden or on the lawn.

Honor after honor has come to our plant for our safety performance at work here in the plant. I'm afraid we would get few honors for our off-the-job record. But the honor safety-at-home brings is the peace and well-being of our families.

It's up to us!

G. A. Strasser
Technical Services Supt.



Mid-May marks more anniversaries for Y-12ers, celebrating important milestones with Union Carbide Corporation. Congratulations.

20 YEARS

James A. O'Barr, Casting Department, May 12.

15 YEARS

Mayford B. McCarter, 9766 Machine Shop, May 16.

Edna L. Kennedy, Physical Testing, May 16.

10 YEARS

Malcolm N. Elam, Beta Four Heavy Machine Shop, May 12.

George W. Simonds, Assembly Operations, May 16.

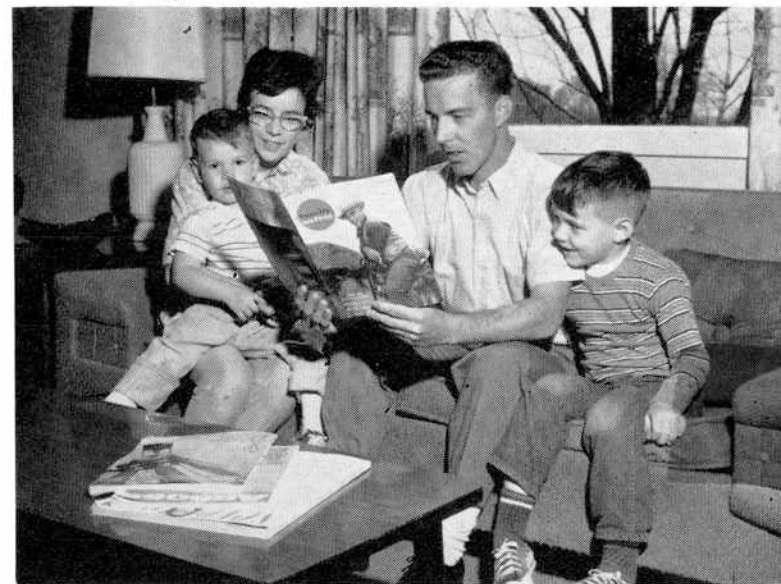
Lloyd L. Murray, Assembly Operations, May 16.

MISTAKEN IDENTITY

Don't be too sure you can always identify a married man when you see one. It may just be a bachelor with a grouch.

CALL OF THE SEA

It is said that the two greatest days in the life of a boat owner are the day he gets it and the day he gets rid of it.



VERNA AND JAY SEWELL are seen in an attempt to teach their two young sons how to play safely and keep their home a safe place in which to work. That's Tracy on his mother's lap, and Allen at the right. Young Sewell is in Y-12's Dispatching Department. He and his family live at 403 West Outer Drive, Oak Ridge.

'Man And Atom' Film Available

A new film describing the role of the Atomic Energy Commission in guiding and supporting the nation's atomic energy programs is available for loan from the local AEC.

The hour-long, 16mm, color film — "Man and the Atom" — reviews the atom's place in nuclear defense, mining and other production programs, and various research and testing activities including nuclear power and utilization of radio-isotopes. The film also discusses the make-up of Commission and shows an AEC meeting in session. It closes with a statement by AEC Chairman Glenn T. Seaborg concerning the future of the nation's atomic energy programs and the role of the atom in benefiting all mankind.

The film may be borrowed without cost through the Film Loan Library, AEC, P.O. Box E, Oak Ridge.

Arts Calendar

Tuesday, May 18 — STAMP COLLECTORS, Atomic City Stamp Club meeting, 7:30 p.m., Wildcat Den. Everyone welcome. No admission.



Katy Kutkost
SEZ.

Jim Sykes and his right arm, M. C. Bays, et al, take care of over 40,000 different items in the Y-12 country store at 9720-8. The number of different varieties is controlled by you. Since July, you've eliminated 2,704 items from the shelves . . . that's probably good. On the other hand, you've added 2,623 in the same period . . . this could be bad—but not necessarily.

The best you can do is:
ELIMINATE THE UNNECESSARY!

And before adding one, ask
WILL IT PAY ITS WAY?

Tokyo's Sakai Leads Physics Seminar Friday

M. Sakai, Institute of Nuclear Study, University of Tokyo, will lead this week's Oak Ridge National Laboratory Physics Division Seminar. He will speak on "Investigation of Two Phonon Vibrational States with (p, 2n) Reactions."

The seminar will be held in Building 4500's Central Auditorium, at 3:15 p.m., Friday, May 14.



SPRING CLEAN-UP INSPECTORS who took special awards for the most outstanding job done in their areas include the above. C. E. Helfenberger, right, receives his award from Captain E. F. Greer. Other award winners are, front row, from left, P. A. Cuthbertson, D. G. Kiser, Carl L. Sanders, E. C. Hatmaker, B. E. Burdette, B. B. Webber, K. B. McNabb and H. L. Wigginton. In the second row are H. L. Horton, H. L. Perdue, J. D. Robertson, P. F. Brownlow, M. G. Jarvis, F. L. Clark and E. L. Brown. Congratulations!



Rider wanted from vicinity of Whittle Springs Road, Washington Pike, Cecil Street or Lincoln Park section of Knoxville, to East or Central Portal, straight day. J. F. Baker, plant phone 3-7141, home phone Knoxville 523-4542.



Y-12'S BIG BEAVERS INCLUDE George Reece, E. T. Ely, Loyd Wyatt, captain, George Duncan, first row reading from left. In the second row are Roscoe Jones, Rick Hull and Bob Culton.

Volleyball Title Goes To ORNL Set-Ups As Y-12 Beavers Win Only One From Four

Volleyball ended another successful season last Wednesday p.m. as the ORNL Set Ups up-ended Y-12's Beavers for the league championship.

In four games of close, hard fought play, the Set Ups took the first two games by scores of 15-9 and 15-10 and seemed to be on their way to closing out play with three straight tallies. However, the Beavers rallied and stubbornly refused to be "goose-egged." In a slam-bang third game, the Beavers became victors by a 15-9 score.

At the start of the fourth and final game, both teams refused to yield. However, this last game was a real thriller with the Set Ups emerging as the winner by 15-13.

The Set Ups, winners of the first half of league play, were crowned as Champions — the Beavers, winners of the second half, became the runners-up.

For the Set-Ups, the net play of Hugh Milton with Jerry Cosgrove slamming the ball was outstanding.

George Reece, Beavers, performed likewise with his jumping and slamming the ball down the alley. Both teams, however, played as a team unit all the way.

After the winners were declared official, trophies were awarded both teams as champions and runners-up by the ORNL and Y-12 Recreation Departments.

Receiving the Championship trophies were Wayne Clark, Bob Copeland, Phil DeNee, Paul Craven, Ed Sander, Bill Sibley, Hugh Melton and Jerry Cosgrove.

The runners-up Beavers receiving trophies were Loyd Wyatt, Bob Culton, Rick H. Hull, George Reece, E. T. Ely Jr., and George Duncan.

1st game:	Set Ups	15
	Beavers	9
2nd game:	Set Ups	15
	Beavers	10
3rd game:	Beavers	15
	Set Ups	9
4th game:	Set Ups	15
	Beavers	13

Huff, Holcombe Lead Riflemen

Jack Huff led Y-12 Riflemen again in the ninth firings, taking a scratch score of 286. G. W. Holcombe led handicap firers with a 291.017. His 285 was second high scratch. Carl Brewster was third with a 283 scratch, 289.819 handicap total.

Y-12 took four points in overall standings as firings for teams went as follows: Scratch: Y-12 1416; X-10, 1441; Independents, 1139. Handicap: Y-12, 1446.803; X-10, 1448.993; and Independents, 1150.395.

League standings follow:

Team	Points
X-10	41
Y-12	26
Independents	17

George Evans Eagles Number 14 At Oak Ridge

George Evans, Dimensional Inspection Superintendent, gave them something to talk about on the fairways at the Oak Ridge Country Club Sunday. On hole number 14, George took an eagle!

The approximately 400-yard hole saw George take a good drive off the tee toward number 14. Then with a number seven iron he looped it onto the green and dropped it right into the cup. Good going, George!

There is no time for security complacency.

Having A Cookout? Play It Cool!

Y-12ers take to the outdoors like they were born there. And out-door cooking has become more and more popular. For city dwellers or suburbanites alike, barbecuing has become an everyday habit. Concerned with the growing number of carbon monoxide poisoning, burns and fires resulting from careless use of home barbecues, the National Safety Council offers the following tips:

- Cook only in a well ventilated area, even if you are using only a few charcoal briquets of a hibachi. Even putting a grill in the fireplace can be hazardous; unless there is a good draft in the chimney, carbon monoxide will not be carried upward and out of the house.

- Never use gasoline or lighter fluid to start the fire. The safest starter is probably wood shavings.

- If you use one of the electrical fire starters, make positive it is approved by the Underwriters' Laboratories, Inc.

- Never add starter fluid once the coals are burning.

- Keep children and pets away from the barbecuing area.

- Wear clothing with no dangling shirt tails or frills that could easily brush against the fire.

- Use good grill equipment. One necessity is a long-handled spatula, fork or pair of long tongs for turning meat, getting potatoes or corn from the coals, or adding fuel just where you want it. You also will need a pair of heavy glove-type pot-holders and a water spraying device to keep the flames down.

- Never leave pot-holders or other combustibles on or near the grill.

- Since charcoal briquets tend to retain heat for long periods of time, drown the used coals with water or bury them in sand or dirt. Never discard them, however, in an area where barefoot youngsters or pets might walk on them and never dump them into a cardboard carton or other combustible container.

Eating outdoors? . . . then go on and enjoy it . . . but observe the rules, please!

Archers Can Still Get In On Play

The All Carbide Plant Archery League began competition on Thursday, May 6, and will continue every Thursday for a total of twelve shoots. In addition to trophies in four divisions, bow hunters use the league competition to improve their skill for the deer hunting season. Time and space are still available for more shooters.

Miniature Golfers Called For Leagues

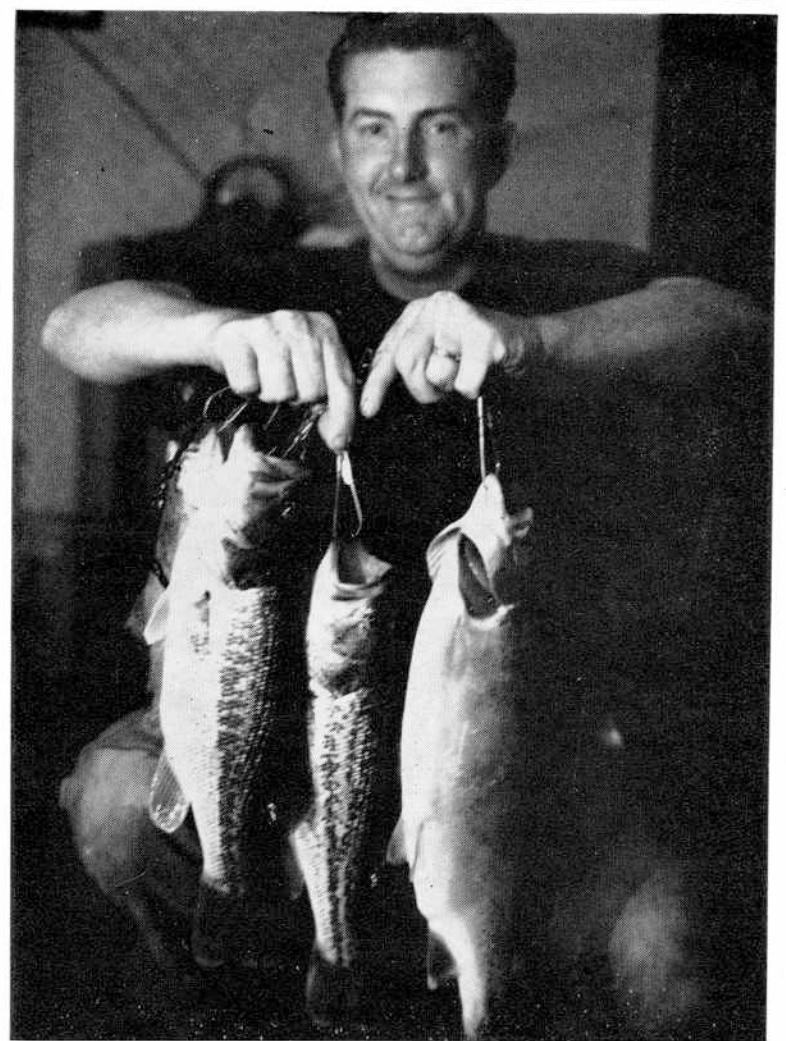
Recreation is paging miniature golfers for the Summer. If you wish to play the popular teeny golf on one of Oak Ridge's putt-putt ranges, just give the Department a call at 3-7109.

Play, as usual, will be in twosomes. Just call 3-7109 . . . because action's due to start any day now!

TORCH CARRIER

It is true that wild beasts of the jungle will not harm you if you carry a blazing torch. Of course, a lot depends on how fast you carry it.

Know when to zip your lip.



BOBBY SAMPLES, Technical Reports, had a good day on the lake recently . . . with these two smallmouth bass, and the big rainbow trout on the right. He entered the rainbow in the Y-12 Fishing Rodeo, but didn't explain why he didn't enter the bass. Certainly they were worthy of entry also.

'Fish Are Jumpin' In Local Waters . . . Have You Entered The Current Rodeo?

That "livin' is easy" time is almost here, and the fish are jumping. Have you entered Y-12's current Fishing Rodeo? Entries are mounting in the March 6-June 14 contest, as well as the annual affair. The many species race is open to all Y-12 employees. Included in the current contest are smallmouth, largemouth, striped bass, walleye, sauger, crappie, trout, bream or bluegill.

The same species above plus rough fish (cat, drum, buffalo) are eligible for the annual rodeo. The only difference is the form . . . and the requirement of a photograph in the annual race.

With the local lakes filled to the brim and working alive with fish . . . it's easy to walk off with a big prize. For entry blanks just give Recreation a ring at 3-7109 and blanks will be put in the mail to you.

You can't win unless you enter, can you? Is your entry in yet?

Horseshoe Pitchers Paged For Summer Play

Once again the call is out for Y-12ers interested in pitching horseshoes. Again it will be ORNL and Y-12 in a league or leagues as conditions may warrant.

To enter, call the Recreation Office, telephone 3-7109. Deadline for entry is only two weeks away — Friday, May 21, 1965, 4:30 p.m.

VALUE OF PUNCTUATION

If you doubt the value of punctuation, observe the misplacing of a period. "Half the world doesn't know how. The other half lives."

Tee-Off Time Application For Beaver Brook Tournament

Saturday, May 22

Foursome

_____, Leader

Leader's office phone _____

Home phone _____

Tee-Off Time Preferred _____

Fill out completely and return to the Recreation Office, Building 9704-2. Deadline for entering is 4:30 p.m. Wednesday, May 19. Tee-off times will be drawn the next day, May 20, at 9 a.m.

What Is Really Important ???

What is the difference is that which is **urgent** and that which is **important**? Rabbi Bernard Mandelbaum, Provost at the Jewish Theological Seminary of America, defines the differences as follows:

"A successful, practical business man said: 'We are so busy doing the immediate and the **urgent** that we never get time to think about the **important**.'"

"The result is that many of us resemble a mountain climber who is so busy reaching the top that he does not take time to look at the view until he is too exhausted to appreciate it.

"It is **urgent** to feed and clothe our children. However, it is **important** that we give them our presence and our active love.

"It is **urgent** that we eat, and strengthen our bodies. However, it is **important** that we learn and nourish our minds.

"It is **urgent** that we succeed in whatever vocations or callings occupy our lives. However, it is **important** that we succeed in the art of life itself.

"It is **urgent** that we strive to take advantage of the new opportunities which are always presented to us. However, it is **important** that we pause and enjoy the blessings that we already have."

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'Time Wasted In Any Method Is Money Spent' -- Katy Kutkost

(Editor's Note: The Cost Reduction and Value Engineering folks are constantly looking for suggestions from employees. How to cut costs without sacrificing quality control, how to cut down waste, how to utilize our 'tools of trade' a little better. The following little essay is out of the ordinary and came to CR & VE via the hands of Doug Carter, Systems and Methods in Production Control.

The 'editorial,' if you will, is reprinted here in its entirety.)

"Many of us are confronted daily with happenings over which we have no real control. Usually any attempt on our part to alter these events ends in a futile effort. There is, however, at least one area in which our INDIVIDUAL efforts possibly could influence the outcome, and certainly the degree. This area would be in the direction of considering how we might, as employees, help to maintain a certain level of work here at Y-12 and, through an all-out effort, eventually increase orders coming into the plant. It is possible. The tired old saying that 'every vote counts' is becoming increasingly true in industry as well as in the political arena. 'Manufactured on schedule' and 'top quality at minimum price' are phrases which will be heard more and more in the near future.

"Just like most institutions, industry evolves. The plant or company that cannot adapt itself to the changing times will find it difficult to compete with the plants which are prepared for the race of survival. One does not escape this evolution merely by leaving the Oak Ridge plants. All plants, and all so-called defense installations are included, are wending a way toward the optimum goal of top quality with less cost.

"Obviously there are any number of ways and means by which a plant can reduce costs and still maintain high quality. Efficient management, organized planning, effective workers, and proper machinery and tools, all have an influence on the cost and quality of an end product.

"While not attempting to rank the factors in order of importance, most of us would agree that employees who effectively perform their tasks are vital to any concern. Time wasted through poor work, petty bickering, rough handling of parts, or just plain watching the clock, is money spent. The more that is wasted

the greater the amount charged to some customer's account.

"By performing INDIVIDUAL assignments to arrive at top quality in the most careful and economical way, the plant's total effort can perhaps change the decline for the future and hopefully gain momentum for an upward push.

"Everything takes time and no less will be true at Y-12. The situation may become worse before it gets better, but better it can be. ALL OF US can add some assurance to a brighter Y-12 future by performing our present jobs in an effective manner and with enthusiasm."

'Atomic Energy A Cornucopia ...'

Dr. David F. Cope, Atomic Energy Commission's Oak Ridge Operations, recently referred to atomic energy as a "Cornucopia." At the Florida Association of Colleges and Universities, Dr. Cope referred to the 'cornucopia' from which has emanated discoveries such as nuclear weapons for defense, nuclear reactors for power, radioisotopes for various applications in medicine, agriculture, and industry and the 'many undiscovered blessings yet to come.'

"For the first time in man's history he has discovered, and learned to control, a source of energy which is inexhaustible compared to the known supplies of chemical energy fuel available to us," Dr. Cope stated.

Bachelor Buttons

Bachelor buttons are so called because they reputedly determine the future marital status of the young men wearing them. The idea for them came from the American folklore which held that an unmarried youth could tell his future by carrying a certain blue flower in his pocket.

If the flower wilted quickly, his sweetheart would not marry him. If the flower remained fresh, a wife awaited him.

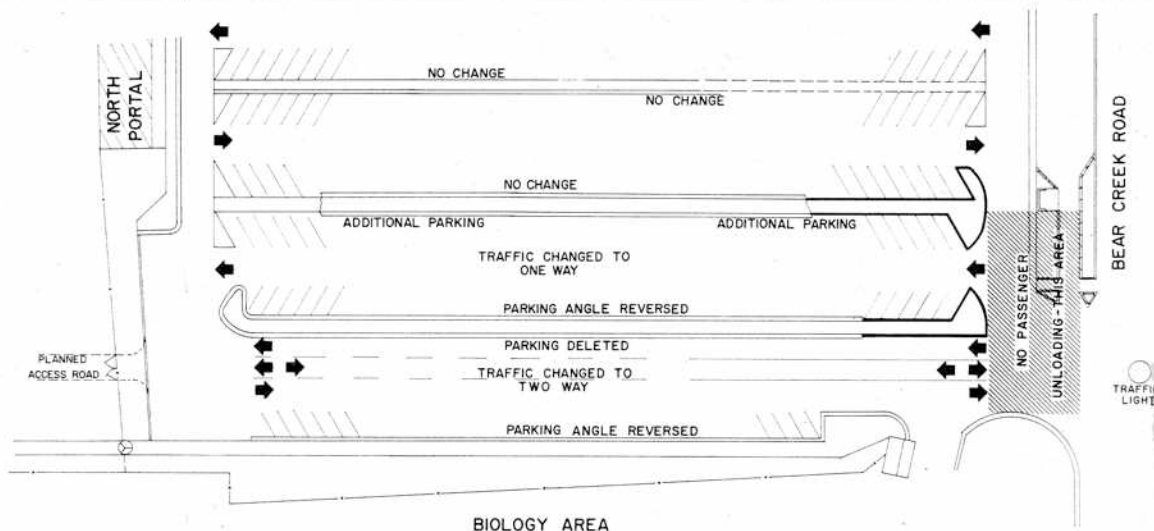
Spring Dance

Continued from Page 1

Have you purchased your ticket yet?

Dancing starts at 9 p.m. . . . and continues until 1 a.m. at the Oak Terrace Ballroom. Recreation is busy now decorating and getting the old place trimmed for the big event.

See y'all Friday night!



NORTH PORTAL TRAFFIC AND PARKING CHANGES, effective this week, are shown in the above drawing. Persons entering and leaving the portal should note the parking, traffic flow and passenger loading and unloading area affecting the eastern section. Additional parking spaces have been provided in one section.

Thomas Son Will Attend Boys State

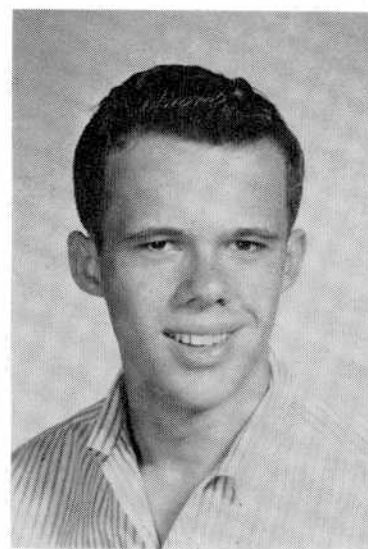
The Gabriel Thomas home has produced a candidate for Boys' State in their son Danny. Danny is a junior at Lenoir City High School.

His activities include: National Honor Society, fire vice president; Annual Staff, layout editor; French Club, vice president; Student Council, member; Literary Club, member; Math Club, member; Future Teachers of America, member.

Danny is in the top third of his class. Boys' State will be at Tennessee Polytechnic Institute, Cookeville, this year. Nominations for the candidates are approved by the faculty.

At the present Danny is undecided about where he is going to college, but leans toward TPI. He hopes to become a teacher.

The Thomas home is on Gale Street, Lenoir City.



Danny Thomas

CHIP OFF OLD BLOCK

Here's a remark one parent should have never made: "If you don't believe me, I'll just get one of my old report cards and compare it with yours."

People are always anxious to pass the buck—unless it happens to have a picture of Washington on it.

North Portal Park And Traffic Change

Effective this week, the traffic flow patterns in the eastern part of the North Portal will be revised. This traffic flow change provides for a direct approach to the new Biology Area access road now under construction.

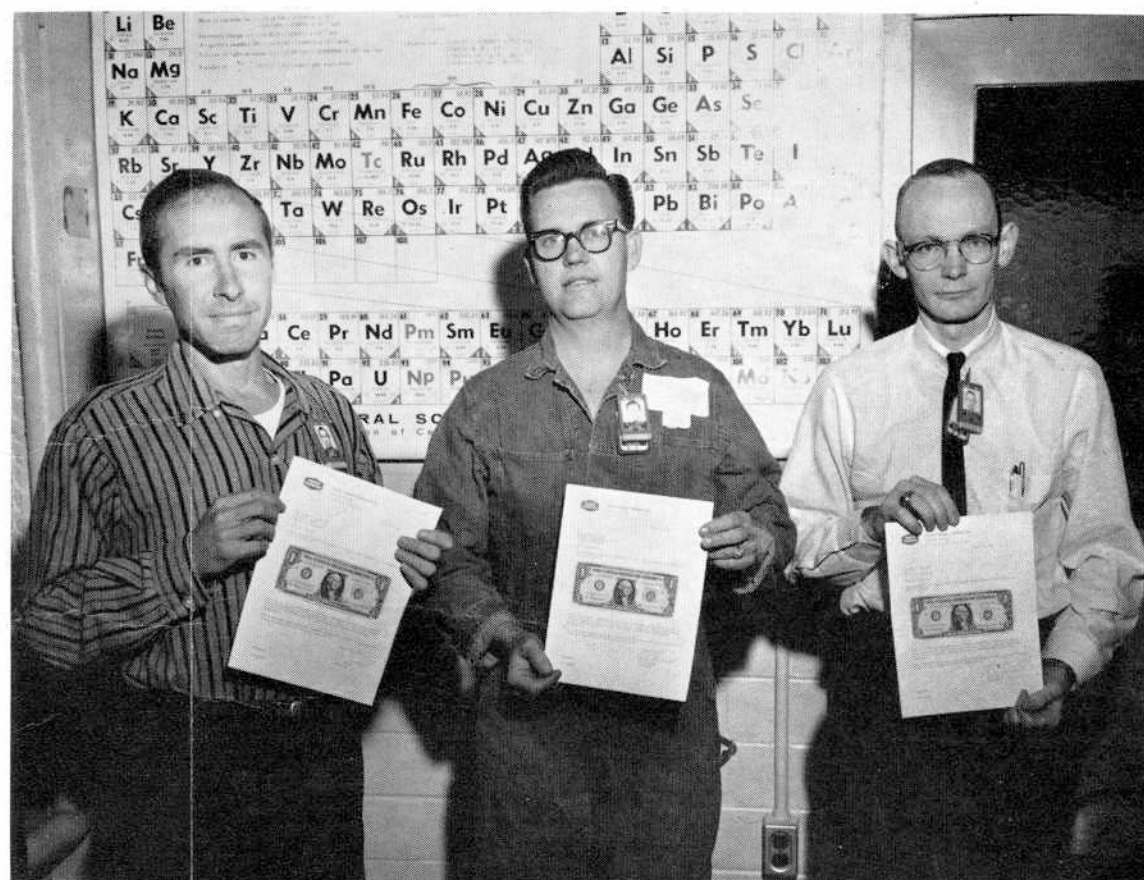
The new arrangement will increase safety in the use of the portal without reducing the number of parking spaces. **No parking will be allowed in the two easternmost lanes while the work is going on, which will take about two days.**

Reactor Shield

Continued from Page 1
ing up to tens of kilowatts of power.

Heat produced by nuclear fission in the SNAP-10A reactor is converting directly 500 watts of electricity by thermoelectric elements. The power in the present satellite will be used for the spacecraft's extensive test instrumentation and to test an ion propulsion engine developed by the Air Force.

SNAP-10A is just the beginning!



LATEST PATENT APPLICATION HOLDERS in Y-12 are the trio above. From left are Ralph Levey, A. E. Smith, and Roy Huddleston. Each Development Division man was awarded a patent application for "Electrical Lead-Through for Pressure Intensifier" developments. They were presented their congratulatory letters with the customary \$1 attached recently in Development Division Superintendent W. K. Whitson's office. (The Bulletin has already lost count of Levey's applications! . . . Smith and Huddleston are repeaters, too!)

SAFETY SCOREBOARD

The Y-12 Plant Has
 Operated
12 Days Or
340,000 Man-Hours
 (Unofficial Estimate)
 Without A Disabling
 Injury
Through May 9
 Phone 3-7755
 For Daily Report
 On Accident-Free Hours